

Form PTO-948 (Rev. 06/03)

Application No. 284, 436U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 4/12/99 are:A. ☒ approved by the Draftsperson under 37 CFR 1.84 or 1.152.B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. Corrected drawings are required.

1. **DRAWINGS.** 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required).
 ___ Color drawings are not acceptable until petition is granted. Fig(s) ___
 ___ Pencil or non black ink not permitted. Fig(s) ___

2. **PHOTOGRAPHS.** 37 CFR 1.84(b)
 ___ One (1) full-tone set is required. Fig(s) ___
 ___ Photographs may not be mounted. 37 CFR 1.84(e)
 ___ Photographs must meet paper size requirements of 37 CFR 1.84(d). Fig(s) ___
 ___ Poor quality (half-tone). Fig(s) ___

3. **TYPE OF PAPER.** 37 CFR 1.84(c)
 ___ Paper not flexible, strong, white, and durable. Fig(s) ___
 ___ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) ___

4. **SIZE OF PAPER.** 37 CFR 1.84(d): Acceptable sizes:
 21.0 cm by 29.7 cm (DIN size A4) or
 21.6 cm by 27.9 cm (8 1/2 x 11 inches)
 ___ All drawing sheets not the same size. Sheet(s) ___
 ___ Drawings sheets not an acceptable size. Fig(s) ___

5. **MARGINS.** 37 CFR 1.84(g): Acceptable margins:
 Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
 ___ Margins not acceptable. Fig(s) ___

___ Top (T) ___ Left (L)
 ___ Right (R) ___ Bottom (B)

6. **VIEWS.** 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig. 1B and Fig. 1C, etc., the specification, and the Brief Description of the Drawings, must likewise be changed.

___ Views not labeled separately or properly. Fig(s) 9

7. **SECTIONAL VIEWS.** 37 CFR 1.84(h)(3)

___ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) ___

8. **ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i)
 ___ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) ___

9. **SCALE.** 37 CFR 1.84(k)
 ___ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) ___

10. **CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(l)

___ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) A11

11. **SHADING.** 37 CFR 1.84(m)

___ Solid black areas pale. Fig(s) ___
 ___ Solid black shading not permitted. Fig(s) ___

12. **NUMBERS, LETTERS, & REFERENCE CHARACTERS.** 37 CFR 1.84(p)

___ Numbers and reference characters not plain and legible. Fig(s) A11

___ Figure legends are poor. Fig(s) A11
 ___ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) ___

___ English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) ___

___ Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s) ___

13. **LEAD LINES.** 37 CFR 1.84(q)

___ Lead lines missing. Fig(s) ___

14. **NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(t)

___ Sheets not numbered consecutively, and in Arabic numbers beginning with number 1. Sheet(s) ___

15. **NUMBERING OF VIEWS.** 37 CFR 1.84(u)

___ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) ___

16. **DESIGN DRAWINGS.** 37 CFR 1.152

___ Surface shading shown not appropriate. Fig(s) ___

___ Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s) ___

Remove descriptive information from all drawings

COMMENTS:

Poor quality images shown in Fig 1, 9, 10, 11, 10B-14 - if photographs see Box 2

Reviewer Dr. Dieter Gray

If you have question, call (703) 305-8404.

Date 3-30-04Attachment to Paper No. 3-30-04